

Inference at * 1 1 1
of proof for Lemma comp_nat_ind_tp:

1. $P : \mathbb{N} \rightarrow \mathbb{P}\{k\}$
2. $\forall i:\mathbb{N}. (\forall j:\mathbb{N}. (j < i) \Rightarrow P(j)) \Rightarrow P(i)$
3. $i : \mathbb{N}$
 $\vdash P(i)$
by (%S%
\p. let i = var_of_hyp (get_int_arg 'hn' p) p in

let z = get_distinct_var 'zz' p in
Assert
(mk_all_term z $\mathbb{N}$
(
mk_all_term i $\mathbb{N}$
(mk_implies_term
(mk_less_than_term (mvt i) (
mvt z))
(concl p))))
p)

1:assertion..... NILNIL

$\vdash \forall zz, i:\mathbb{N}. (i < zz) \Rightarrow P(i)$
2:

4. $\forall zz, i:\mathbb{N}. (i < zz) \Rightarrow P(i)$
 $\vdash P(i)$
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